

AD47M - MINI CIRCUIT BREAKER



DESCRIPTION / APPLICATION

A circuit breaker is an automatically operated electrical switch designed to protect an electrical circuit from damage caused by excess current from an overload or short circuit. Its basic function is to interrupt current flow after a fault is detected. Circuit breakers are rated both by the normal current that they are expected to carry, and the maximum short-circuit current that they can safely interrupt. This latter figure is the ampere interrupting capacity (AIC) of the breaker. It is in conformity with IEC 60947 standard.

Electrical Features Mechanical Features	Standard		SANS556-1 IEC60947-2		
	Rated current	Α	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63		
	Poles		1P, 2P, 3P, 4P*		
	AC Volts	V	230V, 400V		
	Rated frequency	Hz	50/60		
	Rated breaking capacity	kA	3		
	Thermo-magnetic release characteristic	Curve	B*, C (white toggle), D* (orange toggle)		
	Electrical life expectancy	times	4000		
	Mechanical life expectancy	times	10000		
	Protection degree		IP20		
	Best Ambient temperature	°C	30		
	Ambient temperature (with daily average≤35°C)	°C	-30°C to +60°C		
Installation	Terminal connection type		Cable/Pin-type busbar		
	Connection		Top and bottom		
	Tighten torque (max)	Nm	2.5Nm		
	Mounting		DIN Rail EN 60715(35mm) by means of fast clip dev		

MAIN TECHNICAL DATA



ACCESSORIES

Auxiliary contact	CBA-AUX-XXX
Shunt release	CBA-AUX-XXX
Under voltage trip	UVT-XXX
Alarm contact	CBA-XXX
Lockout	CBA-LOCKOUT

* Available on request

PART NUMBER EXAMPLE

BASE NUMBER	KA RATING	POLES	AMPERAGE	CURVE		
CB-AD47M	ЗКА	1P	1A	C / D		
EXAMPLE	CB-AD47M-3101					
	CB-AD47M-3101D					

TEMPERATURE DERATING

The maximum permissible current in a circuit breaker depends on the ambient temperature where the circuit breaker is placed. Ambient temperature is the temperature inside the enclosure or switchboard in which the circuit breakers are installed. South Africa is calibrated at 40°C.

Rated Current In(A)	Temperature compensation rate corresponding to different temperatures								
	-10°C	0°C	10℃	20°C	30°C	40°C	50℃	55℃	60°C
1A, 2A, 3A, 4A, 6A	1.2	1.14	1.09	1.05	1	0.96	0.82	0.75	0.7
10A, 16A, 20A, 25A, 32A	1.18	1.12	1.08	1.04	1	0.96	0.92	0.88	0.84
40A, 50A, 63A	1.16	1.12	1.07	1.03	1	0.97	0.87	0.83	0.8

Eg.: When 1A breaker working on -10°C, 1.2A current is required(1.2A=1Ax1.2 as above chart)





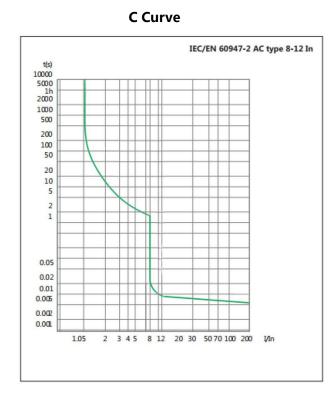
DIMENSIONS AND MOUNTING







TRIPPING CURVES



D Curve

